## IN THE CLAIMS:

Please amend claims 1, 9, and 17 as follows.

1. (Currently Amended) A method, comprising:

receiving data;

performing quadrature amplitude modulation on the data and outputting quadrature outputs;

adjusting a DC offset at a digital domain of the quadrature outputs and generating a digital signal;

converting the digital signal to an input current using a digital to analog converter;

receiving an input current from a digital to analog converter;

mirroring the input current;

converting the received input current to a voltage;

filtering the voltage; and

converting the filtered voltage into an output current using the mirrored input current.

- 2. (Original) The method of claim 1, wherein the filtering is performed by a low pass filter.
- 3. (Original) The method of claim 2, wherein the low pass filter includes a third order RC filter.

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- 4. (Original) The method of claim 1, further comprising outputting the output current to a mixer.
- 5. (Original) The method of claim 1, wherein the converting the received input voltage and the converting the filtered voltage are performed by a first and second MOSFET, respectively.
- 6. (Original) The method of claim 5, wherein the second MOSFET is the inverse of the first MOSFET.
- 7. (Original) The method of claim 1, wherein the filtering filters out clocking glitches and quantization noise.
- 8. (Original) The method of claim 1, wherein the filtering yields a DC gain of one.
- 9. (Currently Amended) A system, comprising:

  a modulator configured to receive data, to perform quadrature amplitude

  modulation on the data, and to output quadrature outputs;
- a DC offset adjustment engine configured to adjust a DC offset at a digital domain of the quadrature outputs and generating a digital signal;

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a digital to analog converter configured to convert the digital signal to an input current;

a current mirror that mirrors configured to mirror an the input current from a digital to analog converter;

a first MOSFET capable of converting configured to convert the received input current to a voltage;

a filter, communicatively coupled to the first MOSFET, eapable of filtering configured to filter the voltage; and

a second MOSFET, communicatively coupled to the filter and the current mirror, eapable of convertingconfigured to convert the filtered voltage into an output current using the mirrored input current.

- 10. (Original) The system of claim 9, wherein the filter includes a low pass filter.
- 11. (Original) The system of claim 10, wherein the low pass filter includes a third order RC filter.
- 12. (Original) The system of claim 9, further comprising means for outputting the output current to a mixer, the means communicatively coupled to the second MOSFET.

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- 13. (Original) The system of claim 9, wherein the second MOSFET is the inverse of the first MOSFET.
- 14. (Original) The system of claim 9, wherein the low pass filter filters out clocking glitches and quantization noise.
- 15. (Original) The system of claim 9, wherein the low pass filter yields a DC gain of one.
- 16. (Original) A transmitter incorporating the system of claim 9.
- 17. (Currently Amended) A system, comprising:

means for receiving data;

means for performing quadrature amplitude modulation on the data and outputting quadrature outputs;

means for adjusting a DC offset at a digital domain of the quadrature outputs and generating a digital signal;

means for converting the digital signal to an input current using a digital to analog converter;

means for receiving an-the input current from a digital to analog converter; means for mirroring the input current;

means for converting the received input current to a voltage;

means for filtering the voltage; and

means for converting the filtered voltage into an output current using the mirrored input current.